ABSTRACT OF THE DISCLOSURE

Method and device for the calibration-equalization of a reception system

A device and method for the calibration and equalization of reception chains of an antenna processing system comprises several RF (radiofrequency) chains, each associated with a radiating element, a set of sensors Ci formed out of the outputs of the preceding RF chains, a channel for the injection of a calibration signal, means to couple the calibration signal to the sensor signals and several reception-digitization chains. The device comprises at least: one processor adapted to managing all the devices; a means used to adjust the value of the gain of an RF chain to a minimum value Gmin; a means for deflecting the sensors, adapted to minimizing their directivity toward the interference sources; a means adapted to adjusting the level of the injected calibration signal ST relative to the signal of the sensors, an RF chain having a gain adjusted to a minimum value Gmin. Application to the calibration and equalization of reception chains on board a satellite.

Figure 6 to be published.